## **ABSTRACT**

The invention is a response device to be used in functional magnetic resonance imaging (MRI) procedures. The device consists of keypads with fiber optic push button switches connected with fiber optic cables to an electronic unit for the illumination of the switches and the detection of depression events. The bodies of the keypads have a plurality of openings; therefore, the switches can be positioned in different locations on the keypad to be ergonomically activated with the patient's fingers. The switches can also be located in a symmetrical arrangement allowing them to be pressed with a knob in sequence for performing joystick functions.